



## Declaration and Power of Attorney For Patent Application English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

the specification of which is attached hereto unless the following box is checked:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CATALYTIC GENERATION OF HYDROGEN,

was filed on <u>April 11, 2001</u> as
United States Application Number or PCT International Application Number 09/832,378
and was amended on April 11, 2001 (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Prior Foreign Applic	auon(s)	Г	Hority Not Claimed
<u>9806199.7</u>	Great Britain	24 March 1998	
(Number)	(Country)	(Day/Month/Year Filed)	
			<del></del>
(Number)	(Country)	(Day/Month/Year Filed)	
I hereby claim the listed below.	benefit under 35 U.S.C. §	119(e) of any United States prov RECEIV	isional application(s ED
—— (Application Number)	—— (Filing Date)	JUL 2 3 20	001
<del>_</del>	<u> </u>	OFFICE OF PETIT	rions
(Application Number)	(Filing Date)		
I hereby claim the b	penefit under 35 U.S.C. § 12	0 of any United States application	n(s), or 365(c) of any

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:





09/646,497		<u>September 18, 2000</u>	<u>Abandoned</u>	<u>1</u>	
(Application Number)		(Filing Date)	(Status - pate	ented, pending, abandone	d)
(Application Number)		(Filing Date)	(Status - pate	ented, pending, abandoned	d)
	ecute this appl	a named inventor, I lication and transact	•	<del>_</del>	• • •
Paul F. Prestia Allan Ratner Andrew L. Ney Kenneth N. Nigon Kevin R. Casey Benjamin E. Leace James C. Simmons	Reg. No. 23,031 Reg. No. 19,717 Reg. No. 20,300 Reg. No. 31,549 Reg. No. 32,117 Reg. No. 33,412 Reg. No. 24,842	Lawrence E. Ashery Christopher R. Lewis Robert L. Andersen Joshua L. Cohen Daniel N. Calder Louis W. Beardell, Jr. Jacques L. Etkowicz	Reg. No. 34,515 Reg. No. 36,201 Reg. No. 25,771 Reg. No. 38,040 Reg. No. 27,424 Reg. No. 40,506 Reg. No. 41,738	Jack J. Jankovitz Jonathan H. Spadt Christopher I. Halliday Scott A. Mckeown	Reg. No. 42,690 Reg. No. 45,122 Reg. No. 42,621 Reg. No. 42,866
•	a, Suite 301, Or	<u>Paul F. Prestia</u> ne Westlakes, Berwyn, aul Prestia at (610) 40		Valley Forge, PA 19	<u>482-0980</u>
•	•	ake this declaration on the behalf of such name	•		
statements made were made with by fine or impris-	e on informatio the knowledge onment, or bot	statements made here on and belief are belief that willful false s th, under Section 100 ay jeopardize the valid	eved to be true statements and 01 of Title 18 o	e; and further that the d the like so made of the United States	nese statements are punishable Code and that
Full name of sole or fi	rst inventor (given	name, family name) lan Wi	illiam CARPENTEF	<u> </u>	
Inventor's signature _ Residence Glouceste Citizenship British Post Office Address _ C	ershire, United King	gdom			
Full name of second j	oint inventor, if any	/ (given name, family name)	) John William HA	YES	
Residence Reading, Citizenship British Post Office Address	United Kingdom  5 Elm Court, Sonnii	Transfer and transfer to the LA	Date		
		ned on separately numbere	rad shaats attached	horato	

### Supplement to Declaration and Power of Attorney For Patent Application English Language Declaration

For Signature By 37 CFR 1.47(b) Applicant on Behalf of Nonsigning Inventors Who Refuse to Sign

I, lan Carmichael Wishart hereby declare that I am a citizen of United Kingdom residing at :

Bagpuize House, Baker Street, Aston Tirrold, Oxfordshire, OX11 9DD, United Kingdom

I am authorized by the following company with sufficient proprietary interest:

Johnson Matthey Public Limited Company 2-4 Cockspur Street Trafalgar Square London, SW1Y 5BQ United Kingdom

Title: Patents and Licensing Controller

By virtue of this proprietary interest, I sign this declaration under 37 CFR 1.47(b) on behalf of, and as agent for the nonsigning joint inventors, particulars of whom are:

#### Ian William CARPENTER

Residence Gloucestershire, United Kingdom

Citizenship British

Post Office Address Ivydene, Latchen, Longhope

Gloucestershire, GR17 0QB, United Kingdom

who refuses to sign, and

#### J hn William HAYES

Residence Reading, United Kingdom

Citizenship British

Post Office Address 5 Elm Court, Sonning Common

Reading RG4 9ND, UNITED KINGDOM

RECEIVED

JUL 2 3 2001

OFFICE OF PETITIONS

who refuses to sign.

Upon information and belief, I aver those fact that the inventors are required to state, 37 C.F.R. § 1.64 (b).

lan Carmichael WISHART, Patents and Licensing Controller

Date

# claration and Power of Attorney For Patent Application English Language Declaration

As a belownamed invention, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled CATALYTIC GENERATION OF HYDROGEN, the specification of which is attached hereto unless the following box is checked: was filed on September 18, 2000 as United States Application Number or PCT International Application Number 09/646,497 and was amended on September 18, 2000 (if applicable). I hereby state that I have reviewed and understand the contents of the above identified specification. Including the claims, as amended by any amendment referred to above. í acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56. I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed: Prior Foreign Application(s) Priority Not Claimed 9806199.7 **Great Britain** 24 March 1998 (Number) (Country) (Day/Month/Year Filed) (Number) (Country) (Day/Month/Year Filed) I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) sted below. (Application Number) (Filing Date) (Application Number) (Filing Date) I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §

1.56 which became available between the filing date of the prior application and the national or PCT

international filing date of this application:

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(Application Numb	er)	/Filing D. ( )			
		(Filing Date)	(Status - pate	(Status - patent d, pending, abandoned)	
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Paul F. Prestia					riademark Office
Allan Ratner Andrew L. Ney Kenneth N. Nigon Kevin R. Casey Benjamin E. Leace James C. Simmons	Reg. No. 23,031 Reg. No. 19,717 Reg. No. 20,300 Reg. No. 31,549 Reg. No. 32,117 Reg. No. 33,412 Reg. No. 24,842	Lawrence E. Ashery Christopher R. Lewis Robert L. Andersen Joshua L. Cohen Daniel N. Calder Louis W. Beardell, Jr. Jacques L. Etkowicz	Reg. No. 34,515 Reg. No. 36,201 Reg. No. 25,771 Reg. No. 38,040 Reg. No. 27,424 Reg. No. 40,506 Reg. No. 41,738	Jack J. Jankovitz Jonathan H. Spadt Christopher I. Halliday Scott A. Mckeown	Reg. No. 42,690 Reg. No. 45,122 Reg. No. 42,621 Reg. No. 42,866
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#### ASSIGNMENT

WHEREAS, we, Ian William CARPENTER and John William HAYES, of Bristol, United Kingdom and Reading, United Kingdom, respectively, (hereinafter referred to as "ASSIGNOR") have made an invention entitled CATALYTIC GENERATION OF HYDROGEN, U.S. Application No. 09/646,497, filed September 18, 2000, for which the ASSIGNOR executed an application for United States Letters Patent;

WHEREAS, the ASSIGNEE, JOHNSON MATTHEY PUBLIC LIMITED COMPANY, 2-4 Cockspur Street, Trafalgar Square, London SW1Y 5BQ, United Kingdom, a corporation organized and existing under and by virtue of the laws of the United Kingdom, is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the ASSIGNEE the ASSIGNOR'S entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that ASSIGNOR shall be legally bound, upon request and at the expense of the ASSIGNEE or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments and do such other acts as may be necessary and proper to patent the invention in the United States of America and foreign countries in the name of the ASSIGNEE and to execute all instruments proper to carry out the intent of this instrument.

Because ASSIGNOR includes more than one person, these obligations shall apply to those persons both individually and collectively.

ASSIGNOR hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

IN WITNESS WHEREOF, this Assignment is executed on the day indicated below.

ASSIGNOR #1:	Typed Name: Ian William CARPENTER		
÷	Signatur		
	Date:		
Witness as to ASSIGNOR #1: (Optional)			
ASSIGNOR #2:	Typed Name: John William HAYES		
	Signatur		
	Date: K4 February 2001		
Witness as to ASSIGNOR #2: (Optional)			